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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/729,415	12/05/2003	Paul Kudrna	3873 P 039	8381
7590 03/24/2006			· EXAMINER	
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DATE MAILED: 03/24/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/729,415	KUDRNA ET AL.
Office Action Summary	Examiner	Art Unit
	Diane Yabut	3731
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE!	I. lely filed the mailing date of this communication. O (35 U.S.C. § 133).
Status		
1) ☐ Responsive to communication(s) filed on <u>05 Description</u> 2a) ☐ This action is FINAL . 2b) ☑ This 3) ☐ Since this application is in condition for allower closed in accordance with the practice under Example 2.	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) ⊠ Claim(s) 1-34 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-34 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	wn from consideration.	
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the Education of the Education of the drawing (s) be held in abeyance. See tion is required if the drawing (s) is objected to be a second or be seen to be seen the drawing (s) is objected to be seen the drawing (s) is objected to be seen the drawing (s) is objected to by the Education of the drawing (s) is objected to by the Education of the drawing (s) is objected to by the Education of the Education	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Profesorous's Retest Proving Review (PTO 948)	4)	
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>05/17/04; 02/02/06</u>. 		atent Application (PTO-152)

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DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement (IDS) received on 17 May 2004 is acknowledged. In addition, the IDS received on 02 February 2006 is also acknowledged. The submissions are in compliance with the provisions of 37 CFR 1.97. Accordingly, the examiner is considering the information disclosure statements.

Specification

- 2. The disclosure is objected to because of the following informalities:
- <u>Page 2</u>: line 5 reads "a particular users desires" and should read --a particular user's desires--.
- <u>Page 6</u>: line 6 reads "tangs 72" and should read --tangs 77--.

 line 7 reads "They 79 also" and should read --They also--.
- Page 7: line 16 reads "a two downwardly" and should read --two downwardly--.
- Page 8: line 22 reads "to it 'piercing position" and should read --to a 'piercing position' --.
- <u>Page 9</u>: line 26 reads "the external threats 166 mate" and should read --the external threads 166 mate--.
- <u>Page 10</u>: line 5 reads "the dial adjuster 180" and should read --the dial adjuster 160--. line 6 reads "the adjuster 180" and should read --the follower 180--.
- Page 16: line 16 reads "60 is can be" and should read --60 can be-- or --60 is--.

 line 29 reads "has occurring" and should read --has occurred--.
- Page 17: line 7 reads "withdrawing" and should read --withdrawn--.

 Appropriate correction is required.

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3. The abstract of the disclosure is objected to because of the following:

- (1) It is more than one paragraph
- (2) It exceeds 150 words
- (3) In line 8, "in communications" should read --in communication--.
- (4) In line 10, "the magnetic forces from the magnetic affect the member, and releasing the one of" should read --the magnetic forces from the magnet affect the member, and releasing one of--.

Correction is required. See MPEP § 608.01(b).

Claim Objections

- 4. Claims 19 and 20 are objected to because of the following informalities:
 - Claim 19: In line 4, "a lancet" should be --the lancet--.
 - Claim 20: In line 8, "connect" should be --connected--.
- 5. Claim 29 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim (Claim 6). Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Claim 29 is dependent upon 25, which is dependent upon Claim 6 wherein the same limitation is described in lines 6-8 about the lancet, as it is in lines 17-19 of Claim 29.
- 6. **Note**: Claim 8 recites "the moving means, the holding means, and the activator means," (line 21), and is dependent on Claim 6, which recites "a mechanical or electrical force" (line 5), "a lever member" (line 8), and an "activator" (line 10), which are the respective apparatuses. Claim 8 does not invoke 35 U.S.C. § 112, 6th paragraph, as it is

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not in the proper form. However Claim 8 is independent on Claim 6, and should then properly refer to the respective apparatuses rather than the "means."

Claim Rejections - 35 USC § 112

- 7. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 8. Claims 9-11,14-19,20-24 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 9. The limitation "the housing" is recited in the following claims:

 Claim 9 in lines 23 and 24; Claim 10 in line 28; Claim 11 in line 30; Claim 15 in line 12;

 Claim 16 in line 21; Claim 17 in lines 24 and 30; Claim 20 in line 8. Claim 24 in line 26.

 There is insufficient antecedent basis for all the above limitations in the claims. Claims 9-10,15-17,20, and 24 are dependent upon Claim 6 (Claim 24 being dependent upon 23, which is in turn dependent upon Claim 6), which does not mention "a housing."

The limitation "the collar" is recited in the following claims:

Claim 14 in lines 8 and 9; Claim 15 in lines 12 and 13; Claim 16 in line 21; Claim 17 in lines 24, 25, 27, and 29; Claim 18 in line 2, and therefore Claim 19 (dependent on Claim 18); Claim 21 in lines 12 and 13; Claim 22 in lines 17 and 19; Claim 23 in line 23. There is insufficient antecedent basis for all the above limitations in the claims. Claims 14-18 and 21-23 are dependent upon Claim 6, which does not mention "a collar," but rather "a member," and therefore "the collar" should be changed to --the member--.

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Double Patenting

11. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

- 12. Claims 1,3,10, and 17 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over Claims 2,7,10, of copending Application Pub. No. 20050125019. Although the conflicting claims are not identical, they are not patentably distinct from each other because they encompass the same invention. In other words, the independent Claim 1, and the dependent Claims 3,10, and 17 (all of which encompass Claim 6) of the application under examination are rejectable as being an obvious modification over the claims of the copending application.
- 13. <u>Claim 1</u> recites "a magnetic element" (see line 4), "a member capable of being affected by magnetic forces emanating from the magnetic element" (see lines 5-6), and "a lancet movable between a withdrawn position and a piercing position"

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(see lines 7-10). It is clear that all the elements of Claim 1 are to be found in Claim 2 (as it is dependent upon Claim 1) of the copending application.

- 14. <u>Claim 3</u> recites the magnetic element's magnetic forces "affect the member by either attracting and pulling the member towards the magnetic element or repulsing and pushing the member away from the magnetic element" (see lines 16-18). It is evident that all the elements of Claim 3 are to be found in Claim 7 (as it encompasses Claim 6) of the copending application.
- 15. <u>Claim 10</u> recites "an adjuster adapted to selectively control the positioning of the piercing position relative to the housing" (see lines 27-28). It is clear that all the elements in Claim 10 are to be found in Claim 10 (as it encompasses Claim 8) of the copending application.
- 16. Claim 17 recites "the magnetic element and the collar" are within "the housing" and "the magnetic forces of the magnetic element attract the collar to the magnetic element" in the armed position (see lines 24-26). Also recited is that when the activator releases the collar, "the collar travels toward the magnet" and "past the magnetic element due to the momentum of the traveling collar" and back to a "position within the housing" (see lines 27-30). It is evident that all the elements in Claim 17 are to be found in Claim 15 (as it encompasses Claim 8) of the copending application.
- 17. This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

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Claim Rejections - 35 USC § 102

18. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 19. Claims 1-3,5,8-11,26-28,30,31,33,34 are rejected under 35 U.S.C. 102(b) as being anticipated by **Kheiri**, US Patent No. **6,364,889**. Kheiri discloses an electronic lancing device that uses magnetic forces. **Figure 2** is a good representation of the device.
- <u>Claim 1</u>: Kheiri discloses a magnet **50**, a bobbin **35** ("member") and a lancet **30** (col. 4, lines 19-20), wherein the bobbin is movable from a "retracted" ("withdrawn") position to an "activated" ("piercing") position along with a removably attached lancet **30** (col. 4, lines 44-55).
- Claims 2-3: Kheiri discloses a bobbin 35 with a second tubular body member 515 that is wrapped by a coil of wire 520 (col.5, lines 50-51), which is controlled by an electronic circuit (col 1, lines 60-62). The electric circuit 40 is able to direct current through parts of the coil of wire 520 on bobbin 35, such that the bobbin 35 is capable of being both attracted to or repulsed by the magnet 50 (col. 7, lines 14-18 and 39-42). The electric current 40 can be considered the "arming element" in that it moves the lancet from the piercing position to a retracted, or "armed" position, so that it is ready for piercing.

<u>Claim 5</u>: Kheiri discloses a firing button **22** that is connected to at least one wire leading to the electronic circuit **40** that controls the movement of the bobbin **35**, and therefore the lancet **30**, from a retracted position to a piercing position (col. 4, lines 57-59).

Claim 8: Kheiri discloses a housing **10** that provides an encasing for the lancing device **5**, which includes the lancet **30**, magnet **50** and bobbin **35** (col. 4, lines 21-25).

Claim 9-11: The lancet **30** is in the retracted position when it is fully within the end cap **25**, and in the activated position when it has advanced from the end cap **25** – the end cap **25** can be considered part of the "housing" here. Kheiri discloses a removable end cap **25**, which allows for removal and insertion of a lancet **30** in preparation for use (col. 3, line 67 and col. 4, lines 1, 13-14). The end cap **25** also allows control for the depth of puncture, or is an "adjuster" (col. 3, line 58).

<u>Claim 26</u>: See explanations for Claims 1 and 3.

Claims 27-28: Kheiri discloses a magnet **50** that has a generally cylindrical body member **405** (see col. 5, line 33). Also, bobbin **35** has a generally tubular body member **511** (see col.5, lines 66-67). The bobbin **35** is disposed over the magnet **50** (see col. 1, lines 59-60), which would suggest that the inner diameter of the bobbin is capable of accommodating the diameter of the magnet so as to permit the bobbin to be disposed over the magnet.

<u>Claim 30</u>: See explanation for Claim 1. "Steady state" is best understood as when the member is disposed over the magnet, and not necessarily distinguishable from the "withdrawn" position.

<u>Claim 31</u>: See explanation for Claim 6 below (paragraph 21).

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Claim 33: Kheiri discloses a steel block **52** that is coaxially centered and mounted on top of the cylindrical magnet **50**, and the steel block **52** brings the majority of the magnetic flux lines to intersect the coils disposed around the bobbin **35** (col. 6, lines 43-46).

Claim 34: See explanation for Claim 27.

Claim Rejections - 35 USC § 103

- 20. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 21. Claims 4,6,7,12-14,16-17,20-22,23,29, and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Kheiri** (US Patent No. **6,364,889**) in view of **LeVaughn**, US Patent No. **6197040**.

Claim 4: Kheiri disclosed all claimed structure of the lancet device (see explanations for Claims 1,2-3,5, paragraph 19), except for the lever member. LeVaughn teaches a lancing device with a releasable connector 28 ("lever"), or cantilever latch, which has a cantilever arm for releasable contact with lancet holder 20, and has teeth 50 that engage with teeth 52 on the holder (Figures 2 and 7-7A, col. 4, lines 42-44). This is achieved by a slider 26 that pushes the lancet holder 20 in a cocked position, as well as a forward position, as it pushes down on the releasable connector 28 forcing the engagements between the teeth 50 and 52 together, preventing movement (col. 4, lines 15-20). The releasable connector 28 prevents the lancet holder 20 and slider 26 from

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moving unintentionally, and allows for the cocking and ejecting mechanisms not to be directly linked (col. 2, lines 8-10, 24-26). It would have been obvious to one of ordinary skill in the art at the time of the invention to provide a lever member, as taught by LeVaughn, on the lancing device of Kheiri for holding the bobbin 35 in order to mechanically separate the retracted and piercing positions to avoid unintentional piercing of the lancet.

<u>Claim 6</u>: Kheiri disclosed all claimed structure of the lancet device (see explanations for Claims 1-3,5), except for the lever member, which is explained above in Claim 4.

Note: Kheiri discloses all claimed structure for Claims 7,12-14,20,23, and 29 which are all dependent on Claim 6, but are rejected under 35 U.S.C. 103(a) based on the lack of the lever member in Claim 6 (see explanation for Claim 4), and therefore provide disclosures for only the additional claimed structures as anticipated by Kheiri.

<u>Claim 7</u>: See explanation for Claim 3 (paragraph 19).

<u>Claim 12</u>: See explanation for Claim 11 (paragraph 19).

Claim 13: See explanation for Claim 27 (paragraph 19).

<u>Claim 14</u>: Kheiri discloses a lancet **30** that is removably attached to a bobbin, or "member" (col.3, lines 52-53).

Claim 20: See explanation for Claim 11 (paragraph 19).

Claims 21-22,32: See explanation for Claim 4. The releasable connector **28** ("lever"), or cantilever latch, is similar to the button switch **150** disclosed by the applicant, in that its teeth **50** engages with the teeth **52** on the lancet holder **20** in order to prevent movement in the armed position. It is also similar to the activator means in that is

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capable of releasing the engagement between the teeth. The teeth **52** on the lancet holder **20** of LeVaughn are in a planar orientation, however it would be obvious to one skilled in the art at the time of invention to modify the teeth of in a circumferential manner on the bobbin **35** of Kheiri when combining the releasable connector **28** with the lancet device of Kheiri in order to properly hold the cylindrical bobbin **35** in the armed position.

<u>Claim 23</u>: See explanation for Claim 27 (paragraph 19). "Steady state" is best understood as when the member is disposed over the magnet.

Claim 29: Kheiri discloses a bobbin 35 with a second tubular body member 515 that is wrapped by a coil of wire 520 (col.5, lines 50-51), which is controlled by an electronic circuit (col.1, lines 60-62). When current flows through the wire 520, the bobbin 35 and lancet 30 extend towards the puncture site ("piercing position"), and upon retraction, they both return to the retracted ("withdrawn") position.

22. Claim 25 is rejected under 35 U.S.C. 103(a) as being unpatentable over **Kheiri** (US Patent No. **6,364,889**) in further view of **Simons et al.**, US Patent No. **5871494**. Claim 25: Kheiri disclosed all claimed structure of the lancet device (see explanations for Claims 1,2-3,5, paragraph 19), except for the dial adjuster and follower for controlling the piercing position. Simons et al. teaches a depth adjuster **560**("dial adjuster") that is threaded with a cocking tube **562** ("follower") (col.11, lines 64-66), and is rotated causing the cocking tube **562** to move to a position that determines the location of flange **572**, or a limiting stop, which in turn determines how far the lancet **216** can extend forward (col.12, lines 65-75 and col.13, lines 1-9). This design allows a user to

control the depth of penetration for optimal blood sampling and pain level (col.13, lines 15-17). It would have been obvious to one of ordinary skill in the art at the time of the invention to provide a depth adjuster and cocking tube, as taught by Simons et al., to the device of Kheiri, as well as the lever member of LeVaughn, in order to benefit from user control for improving blood sampling and lowering pain level.

Allowable Subject Matter

23. Claims 15-19, and 24 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

<u>Claims 15-17</u>: The collar, or "member," is interpreted to travel towards the magnetic element after the activator releases the member, meaning that the member is away from the magnetic element in the armed, or withdrawn, position, and therefore is separate from the steady-state position wherein the magnetic element holds the member within it or is disposed around it.

Claims 18-19: The outer shaft moving relative to the inner shaft is interpreted as meaning that the inner shaft does not move, but the other shaft does move. Also, the lancet is capable of being connected to and removed from the outer shaft.

<u>Claim 24</u>: The internal spring is interpreted as a connection between the arming member and the housing.

Conclusion

24. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. **Boecker**, Pub. No. US **2004/0098009** (disclosing an apparatus

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for body fluid sampling and analyte sensing; Figure 98 is especially pertinent), **O'Brien**, US Patent **No. 4,924,879** (disclosing a blood lancet device), **Harding**, US Patent No. **5,613,978** (disclosing an adjustable tip for lancet device), **Verdonk**, U.S. Patent No. **6,306,152** (disclosing a lancet device with skin movement control and ballistic preload), **Hamamoto**, U.S. Patent No. **6,730,046** (disclosing a body fluid sampling device).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Diane Yabut whose telephone number is (571) 272-6831. The examiner can normally be reached on M-F: 9AM-4PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anhtuan Nguyen can be reached on (571) 272-4963. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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SUPERVISORY PATENT EXAMINER

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